

JUL 11 2005

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Raymond G Beausoleil et al

Confirmation No.: 1587

Application No.: 10/678437

Examiner: Le, Que Tan

Filing Date: Oct 03, 2003

Group Art Unit: 2878

Title: Detecting One Or More Photons From Their Interactions With Probe Photons In A  
Matters System

**Mail Stop Amendment**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)

under 37 CFR 1.97 (c) together with either a:  
 Statement under 37 CFR 1.97(e), or  
 a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)

under 37 CFR 1.97 (d) together with a:  
 Statement under 37 CFR 1.97(e)(1) or (2), and  
 a \$180.00 fee set forth in 37 CFR 1.17(p).  
(Filed after final action, a notice of allowance, on or before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Statement together with any required copies of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

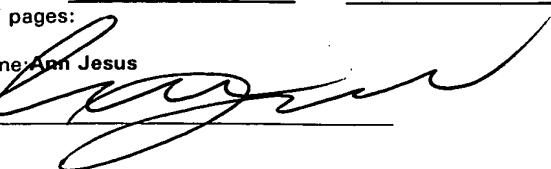
A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450. Date of Deposit: 07/08/2005  
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I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_.  
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Typed Name: Ann Jesus

Signature: 

Respectfully submitted,

Raymond G Beausoleil et al

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Date: 07/08/2005

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**Title:** Detecting One Or More Photons From Their Interactions With Probe Photons In A  
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STATEMENT UNDER 37 CFR 1.97(e)

Sir:

The undersigned hereby certifies that either:

(X) Each item of information contained in the Information Disclosure Statement was cited for the first time in a communication from a foreign patent office in a counterpart foreign application, not more than three months prior to the filing of the statement, or

( ) No item of information contained in the Information Disclosure Statement

-- was cited in a communication from a foreign patent office in a counterpart foreign application, and

-- to the knowledge of the undersigned, after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56 (c) more than three months prior to the filing of the Information Disclosure Statement.

Respectfully submitted,

Raymond G Beausoleil et al

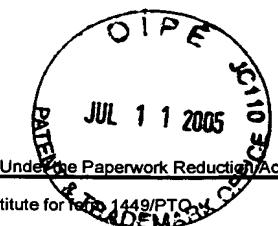
By Denise A. Lee

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PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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<p>Substitute for form 1449/PTO-1449 INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i></p>		<b>Complete if Known</b>	
		Application Number	10/678,437
		Filing Date	10/03/2003
		First Named Inventor	Beausoleil et al
		Art Unit	2878
Examiner Name			
Sheet	1	of	1
		Attorney Docket Number	200313970-1

<b>NON PATENT LITERATURE DOCUMENTS</b>				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
		OPATRNY T ET AL-"Coupled Cavities For Enhancing The Cross-Phase-Modulation In Electromagnetically Induced Transparency"-Phys Review vol 64 no 2 07/09/01-pgs 023805/1-9		
		IMOTO N ET AL-"Quantum Nondemolition Measurement Of The Photon Number Via The Optical Kerr Effect"-Phys Review vol 32 no 4 10/1985 pgs 2287-2791		
		SCHMIDT H ET AL-"Gaint Kerr Nonlinearities Obtained By Electromagnetically Induced Transparency"-Optics Letters vol 21 no 23-pages 1936-1938		
		MIN YAN ET AL-"Nonlinear Absorption By Quantum Interface In Cold Atoms"-Optics Letters vol 26 no 8 04/15/2001- pages 548-550		

Examiner Signature	Date Considered
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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